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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	ATTORNEY DOCKET NO. CONFIRMATION NO.	
09/965,594	09/27/2001	Michael Wittekind	DB 17 DIV I 3499		
23914	7590 10/23/	03	EXAMINER		
STEPHEN	B. DAVIS	SCHNIZER, RICHARD A			
BRISTOL-MYERS SQUIBB COMPANY PATENT DEPARTMENT			ART UNIT	PAPER NUMBER	
POBOX 40	00	1635			
PRINCETON, NJ 08543-4000			DATE MAILED: 10/23/2003		

Please find below and/or attached an Office communication concerning this application or proceeding.

			0 - 1 1/->					
	Application No.		Applicant(s)					
Office Action Summany	09/965,594		WITTEKIND ET AL.					
Office Action Summary	Examiner		Art Unit					
	Richard Schnizer	· · - ·	1635					
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply								
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 2 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).								
1) Responsive to communication(s) filed on <u>9/27</u>	7/01							
	<u>701</u> . is action is non-fir	nal						
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3)⊠ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213. Disposition of Claims								
4) Claim(s) 24-28 and 30-41 is/are pending in the application.								
4a) Of the above claim(s) is/are withdrawn from consideration.								
5) Claim(s) <u>24-28 and 30-41</u> is/are allowed.								
6) Claim(s) is/are rejected.								
7) Claim(s) is/are objected to.								
8) Claim(s) are subject to restriction and/or election requirement.								
Application Papers								
9) The specification is objected to by the Examiner.								
10)⊠ The drawing(s) filed on is/are: a)⊠ accepted or b)□ objected to by the Examiner.								
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).								
11) The proposed drawing correction filed on is: a) approved b) disapproved by the Examiner.								
If approved, corrected drawings are required in reply to this Office action.								
12) ☐ The oath or declaration is objected to by the Examiner.								
Priority under 35 U.S.C. §§ 119 and 120								
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).								
a) ☐ All b) ☐ Some * c) ☐ None of:								
1. Certified copies of the priority documents have been received.								
2. Certified copies of the priority documents have been received in Application No								
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 								
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).								
a) ☐ The translation of the foreign language provisional application has been received. 15)☑ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.								
Attachment(s)	, , ,	. 00						
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s)	4) [1,) [(31/0 ² 5) [6) [X]	Notice of Informal F	(PTO-413) Paper No Patent Application (PT COMMENT and	O-152)				

Art Unit: 1635

EXAMINER'S COMMENT

Compliance with Sequence Rules

This application contains sequence disclosures that are encompassed by the definitions for nucleotide and/or amino acid sequences set forth in 37 CFR 1.821(a)(1) and (a)(2). However, this application fails to comply with the requirements of 37 CFR 1.821 through 1.825 for the following reason(s). This application clearly fails to comply with the requirements of 37 C.F.R.1.821-1.825. Applicant's attention is directed to the final rule making notice published at 55 FR 18230 (May 1, 1990), and 1114 OG 29 (May 15, 1990). If the effective filing date is on or after July 1, 1998, see the final rulemaking notice published at 63 FR 29620 (June 1, 1998) and 1211 OG 82 (June 23, 1998). The specification contains amino acid sequences in excess of 3 amino acids, and nucleic acid sequences in excess of 9 nucleotides, that are not accompanied by a SEQ ID NO:. See page 22 line 31 to page 23, line 2; page 23 lines 9 and 11; page 24, lines 6-9; page 26, lines 30-32; page 27, lines 3-11, 31, and 32; page 29, lines 24-33; page 30, lines 1-4; and page 35, line 10. If these sequences are not in the current Sequence Listing then Applicant must provide:

A <u>substitute</u> computer readable form (CRF) copy of the "Sequence Listing".

A <u>substitute</u> paper copy of the "Sequence Listing", as well as an amendment directing its entry into the specification.

A statement that the content of the paper and computer readable copies are the same and, where applicable, include no new matter, as required by 37 C.F.R. 1.821(e) or 1.821(f) or 1.821(g) or 1.825(b) or 1.825(d).

Art Unit: 1635

If these sequences are in the current Sequence Listing, then the specification should be ammended so that the appropriate SEQ ID NOS accompany the appropriate sequences.

For questions regarding compliance to these requirements, please contact:

For Rules Interpretation, call (703) 308-4216

For CRF Submission Help, call (703) 308-4212

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EXAMINER'S AMENDMENT

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Audrey Sher on 9/29/03.

The application has been amended as follows:

IN THE CLAIMS:

In claim 24

In claims 24 and 25, delete "A" and insert --An isolated-- therefor.

Application/Control Number: 09/965,594

Art Unit: 1635

In claims 30, 34, and 35, immediately before "nucleic", delete "a" and substitute -the-- therefor.

Replace claim 24 with the following:

-- A nucleic acid molecule comprising a nucleotide sequence coding for a modified HCV NS3 protease wherein said modified HCV NS3 protease comprises a HCV NS3 protease comprising at least one substitution of a hydrophobic a-helix 0 amino acid residue to a hydrophilic amino acid residue, wherein said modified HCV NS3 protease exhibits protease activity, or the complement thereof.--

Replace claim 39 with the following:

-- A nucleic acid molecule of claim 24, wherein said HCV NS3 protease comprises residues 2-182 of the amino acid sequence shown in SEQ ID NO:1, or wherein said HCVNS3 protease comprises a portion of wild type HCV NS3 that confers protease activity and that differs from residues 2-182 of the amino acid sequence as shown in SEQ ID NO:1 by the inclusion or deletion of residues at either the N- or Cterminus, or the complement thereof .--

Replace claim 40 with the following:

-- A nucleic acid molecule comprising a nucleotide sequence coding for a modified HCV NS4a-NS3 protease comprising a modified HCV NS3 protease of claim 39 fused to a HCV NS4a or a modified HCV NS4a, wherein said modified HCV NS4a comprises residues 21-31 of full length HCV NS4a as shown in SEQ ID NO:26 having NS4a residue 30 substituted to Asn, or the complement thereof. --

Application/Control Number: 09/965,594 Page 5

Art Unit: 1635

Any inquiry concerning this communication or earlier communications from the examiner(s) should be directed to Richard Schnizer, whose telephone number is 703-306-5441. The examiner can normally be reached Monday through Friday between the hours of 6:20 AM and 3:50 PM. The examiner is off on alternate Fridays, but is sometimes in the office anyway.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John Leguyader, can be reached at 703-308-0447. The FAX numbers for art unit 1632 are 703-308-4242, and 703-305-3014. Additionally correspondence can be transmitted to the following RIGHTFAX numbers: 703-872-9306 for correspondence before final rejection, and 703-872-9307 for correspondence after final rejection.

Inquiries of a general nature or relating to the status of the application should be directed to the Patent Analyst Trina Turner whose telephone number is 703-305-3413.

Richard Schnizer, Ph.D.

DAVET. NGUYEN
PRIMARY EXAMINER